

ASSESSING & INFORMING: ISTANBUL'S EARTHQUAKE READINESS

A collection of projects by students from WORCESTER POLYTECHNIC INSTITUTE in coordination with SABANCI University, with the goal of increasing Istanbul's ability to respond to the threat of a high magnitude seismic event.



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PROJECT 1

Recommend strategies to reduce the risk of catastrophe given a large seismic event within the city.

- Assess districts with areas of high risk.
- Evaluate the policies that are in place in each district.
- Assess the capacity of resources that are on hand for an earthquake emergency.

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PROJECT 2

Research strategies to optimize post disaster search and rescue efforts using data-driven strategies and international benchmarking.

- Understand best practices for SAR.
- Evaluate gaps and opportunities in past disaster efforts.
- Analyze organizational structure of existing SAR teams.

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PROJECT 3

Optimizing post-disaster response and relief efforts to effectively support the affected populace.

- Assess opportunities to improve the coordination and distribution of humanitarian aid.
- Evaluate the functionality of communication and organizational channels.
- Evaluate the access for survivor welfare to and safety within the camps.

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PROJECT 4

Preliminary research cellular locating search tool with the ability to be rapidly deployed, collect accurate location data, and be easily integrated into rescue operations.

- Identify and rank feasible tracking technologies
- Assess features and functionality for existing operations and protocols
- Summarize and present options for implementation

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Please reach out to our contacts with any questions, comments, or advice. We are excited to learn from and work with you on this project. Detailed reports of each project can be made rapidly available upon request.